

IN THE CLAIMS

1. (Currently Amended) A method for affixing two substrates to one another using a non-epoxy glue sealant containing photoinitiators, the method comprising the steps of:
applying a non-epoxy glue sealant along an outer periphery of a first substrate;
placing a second substrate onto the first substrate containing the non-epoxy glue sealant; and

irradiating the glue sealant with laser beam radiation to polymerize the sealant by directing light onto one of the first or the second substrate that is at least partially transparent to the laser beam, the laser beam consisting of one of a continuous wave laser, a pulsed laser with a pulse duration greater than 21 ns, and a pulsed laser with a pulse duration less than 19 ns.

2. (Original) The method of claim 1, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam radiation to polymerize the sealant by activating the photoinitiators.

3. (Currently Amended) The method of claim 1, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam radiation that is incident onto one of the first or the second substrate, so that the laser beam radiation subtends an angle ~~near~~ substantially normal to the first or the second substrate receiving the laser beam irradiation, the beam irradiation passing through the first or the second substrate onto the non-epoxy glue sealant.

4. (Currently Amended) ~~The~~ A method of claim 1 for affixing two substrates to one another using a non-epoxy glue sealant containing photoinitiators, the method comprising the steps of:

applying a non-epoxy glue sealant along an outer periphery of a first substrate;
placing a second substrate onto the first substrate containing the non-epoxy glue sealant; and

irradiating the glue sealant with laser beam radiation to polymerize the sealant by directing light onto one of the first or the second substrate that is at least partially transparent to the laser beam,

wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam irradiation that is incident onto one of the first or the second of the two substrates, so that the laser beam subtends an angle at non-normal incidence with respect to the first or the second substrate receiving the laser beam radiation, enabling the laser directed onto the first or the second substrate to pass through the first or the second substrates onto the non-epoxy glue.

5. (Currently Amended) The method of claim 1, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam irradiation from a pulsed laser with a pulse duration less than 1 ns.

6. (Original) The method of claim 1, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam irradiation from a continuous (CW) laser.

7. (Original) The method of claim 5, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam irradiation from a pulsed laser with a wavelength range 200-1500 nm.

8. (Original) The method of claim 6 5, wherein the step of irradiating the glue sealant includes irradiating the glue sealant with laser beam irradiation from a continuous (CW) laser with a wavelength range 200-1500 nm.

Claims 9 – 11 (Canceled)

12. (Currently Amended) The method of claim 1, wherein the first substrate and the second substrate form a LCD (Liquid Crystal Display) panel assembled according to an ODF (One Drop Fill) method and

~~wherein the non-epoxy glue sealant is applied using an ODF method; and~~

wherein the irradiating of the non-epoxy-glue sealant with the laser beam includes providing a UV (Ultraviolet) dosage into the non-epoxy glue sealant within the LCD panel of not less than 0.02 J/cm^2 .

13. (Canceled)

14. (Original) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with a laser at an impingement angle off of normal to the LCD panel so as to supply a UV dosage of not less than 0.02 J/cm^2 under any blocking images within the LCD panel.

15 – 16. (Canceled)

17. (Currently Amended) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with a laser to expose the photo initiators in the non-epoxy glue sealant ~~from the laser~~ using a back side of the LCD panel, wherein the backside of the panel contains no blocking images.

18. (Currently Amended) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with a ~~Q-Peak~~ Nd:YLF frequency tripled pulsed laser.

19. (Original) The method of claim 12, wherein the step of assembling a first substrate and a second substrate forming a LCD panel using an ODF method with a non-epoxy glue sealant includes forming a LCD panel using an epoxy-acrylate glue sealant.

20. (Currently Amended) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with a continuous (CW) laser.

21. (Original) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with laser at a wavelength range of 200-1500 nm.

22. (Original) The method of claim 12, wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with a continuous laser at wavelength range 200-1500 nm.

23. (Currently Amended) A The method of claim 12 for affixing two substrates to one another using a non-epoxy glue sealant containing photoinitiators, the method comprising the steps of:

applying a non-epoxy glue sealant along an outer periphery of a first substrate;

placing a second substrate onto the first substrate containing the non-epoxy glue sealant; and

irradiating the glue sealant with laser beam radiation to polymerize the sealant by directing light onto one of the first or the second substrate that is at least partially transparent to the laser beam

wherein the first substrate and the second substrate form a LCD (Liquid Crystal Display) panel assembled according to an ODF (One Drop Fill) method and

wherein the irradiating of the non-epoxy-glue sealant with the laser beam includes providing a UV (Ultraviolet) dosage into the non-epoxy glue sealant within the LCD panel of not less than 0.02 J/cm^2 , and

wherein the step of irradiating the non-epoxy glue sealant with a laser includes irradiating with at least one of a laser controlled by a servo to trace out the pattern of the non-epoxy glue sealant to deliver not less than 0.02 J/cm^2 to the non-epoxy glue sealant and a laser providing a beam which is directed by scanning mirrors to deliver not less than 0.02 J/cm^2 by directing the laser beam to trace out the pattern of the non-epoxy glue sealant.

24. (Cancelled)